

## Natural Sciences NTSC 10200 -- Spring 2004

### Rocky Kolb

<http://home.fnal.gov/~rocky/natsci102>

Lectures: KPTC 106, 10:30-11:50am, Tuesday & Thursday

- **The Course** consists of lectures and a laboratory/discussion session. In addition to the lecture, every student must be registered for a laboratory/discussion section.

SECTION	TA	LAB/DISCUSSION
1	Anibal Medina AAC 010c 834-4668 <a href="mailto:amedina@uchicago.edu">amedina@uchicago.edu</a>	Monday 1:30 – 3:20pm KPTC 312
2	Vasileios Paschalidis AAC 040 834-4671 <a href="mailto:vpaschal@uchicago.edu">vpaschal@uchicago.edu</a>	Monday 3:30 – 5:20pm KPTC 312
3	Vasileios Paschalidis AAC 040 834-4671 <a href="mailto:vpaschal@uchicago.edu">vpaschal@uchicago.edu</a>	Monday 7:00 – 8:50pm KTPC 312
4	Jim Chisholm AAC 112 702-4879 <a href="mailto:chisholm@oddjob.uchicago.edu">chisholm@oddjob.uchicago.edu</a>	Tuesday 1:30 – 3:20pm KPTC 312
5	Justin Johnsen AAC 010c 834-4668 <a href="mailto:jjohnsen@uchicago.edu">jjohnsen@uchicago.edu</a>	Tuesday 3:30 – 5:20pm KPTC 312
6	Brian Wilhite AAC 038 702-3335 <a href="mailto:wilhite@oddjob.uchicago.edu">wilhite@oddjob.uchicago.edu</a>	Tuesday 7:00 – 8:50pm KTPC 312

SECTION	TA	LAB/DISCUSSION
7	Sein Ahn AAC 135 834-2247 <a href="mailto:sein@oddjob.uchicago.edu">sein@oddjob.uchicago.edu</a>	Wednesday 1:30 – 3:20pm KPTC 312
8	Sein Ahn AAC 135 834-2247 <a href="mailto:sein@oddjob.uchicago.edu">sein@oddjob.uchicago.edu</a>	Wednesday 7:00 – 8:50pm KPTC 312
9	Jim Chisholm AAC 112 702-4879 <a href="mailto:chisholm@oddjob.uchicago.edu">chisholm@oddjob.uchicago.edu</a>	Thursday 1:30 – 3:20pm KTPC 312
10	Anibal Medina AAC 010c 834-4668 <a href="mailto:amedina@uchicago.edu">amedina@uchicago.edu</a>	Thursday 7:00 – 8:50pm KPTC 312
11	Brian Wilhite AAC 038 702-3335 <a href="mailto:wilhite@oddjob.uchicago.edu">wilhite@oddjob.uchicago.edu</a>	Friday 1:30 – 3:20pm KPTC 312
12	Justin Johnsen AAC 010c 834-4668 <a href="mailto:jjohnsen@uchicago.edu">jjohnsen@uchicago.edu</a>	Friday 3:30 – 5:20pm KTPC 312

If you have to switch a section, please email Mr. Kurt Henriksen,  
[kurt@oddjob.uchicago.edu](mailto:kurt@oddjob.uchicago.edu) before 2pm Friday afternoon 4/2.

- The **Lab/Discussion Sections** will meet in KPTC 312. The sessions begin April 5 and end May 28.
  - 5 April – 9 April *The Moons of Jupiter (week 1)*
  - 12 April – 16 April *The Moons of Jupiter (week 2)*
  - 19 April – 23 April *The Temperature of the Universe (week 1)*
  - 26 April – 30 April *The Temperature of the Universe (week 2)*
  - 3 May – 7 May *Geometry of the Universe (week 1)*
  - 10 May – 14 May *Geometry of the Universe (week 2)*
  - 17 May – 21 May *Expansion rate & density of the Universe (week 1)*
  - 24 May – 28 May *Expansion rate & density of the Universe (week 2)*
- You will be assigned **Homework** every Tuesday, due the following Tuesday at the end of class. Late homework will not be accepted. The first assignment will be given March 30 and will be due April 6. Homework will count as 10% of the grade. Homework and exam answers will be posted on the class website.
- **My Office Hours** will be from 1:30 –2:30pm every Tuesday and Thursday in AAC 138. If you wish an appointment at any other time, please contact me.
- **Contact Information:** (773) 702-0597 (campus office); (773) 834-0393 (Jennifer Smith, my assistant on campus in AAC 140); (630) 840-4695 (Fermilab office); (630) 840-3758 (Liz Duty, my assistant at Fermilab); (630) 393-7058 (home number). My email address is [rocky@rigoletto.uchicago.edu](mailto:rocky@rigoletto.uchicago.edu).
- **The AAC** is not easy to find. Because of the threat of terrorism, The Department of Homeland Security requires that we keep the doors to AAC locked at all times. To find my office in the AAC, you must enter the Research Institutes Building at 5640 South Ellis Ave and follow the signs to “AAC” or “Astronomy.”
- **Grades** will be based on homework, quizzes, the final exam, labs, and participation in the discussion section.
 

➤ Labs	15%
➤ Homework	10%
➤ Discussion	5%
➤ 26 April quiz	15%
➤ 25 May quiz	20%
➤ Final exam	35%
- **Make-Up Exams and Labs** will not be given. The final exam is required. Exams (including the final) count for 70% of the grade. If you miss one or both of the other exams, the final exam will count for a higher percentage. If you miss the first exam, the final exam will count for 50% of your grade. If you miss the second exam, the final exam will count for 55% of your grade. If you miss the first two exams, the final exam will count for 70% of your grade.

- The *TAs* will schedule ***Weekly Office Hours***.
- ***Lab Manuals*** or ***Lab Notebooks*** are not required.
- There are three required ***Textbooks***:
  - *Blind Watchers of the Sky*, Kolb
  - *The Little Book of the Big Bang*, Hogan
  - *A Brief History of Time*, Hawking
- ***Additional Reading*** will occasionally be expected. Occasionally, material will be placed on reserve in Crerar and/or made available on the class website.
- ***Suggested Reading*** material is also on reserve in Crerar.
  - *The First Three Minutes*, Weinberg
  - *The Big Bang*, Silk
  - *Cosmology, The Science of the Universe*, Harrison
  - *Universe*, Kaufman
  - *Exploration of the Universe*, Abell
  - *The Physical Universe*, Shu
- The award-winning class ***Website*** will be <http://home.fnal.gov/~rocky/natsci102/>.
- Before and after each class I will play celestially inspired music. Send your requests to [rocky@oddjob.uchicago.edu](mailto:rocky@oddjob.uchicago.edu).